

October 25, 2016

Derek Ingram
XDD, LLC
11171 Forest Haven Road
Festus, MO 63028
TEL: (314) 609-3065
FAX:



RE: Ameren Huster Road

WorkOrder: 16101279

Dear Derek Ingram:

TEKLAB, INC received 7 samples on 10/20/2016 5:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Sample Summary	26
Dates Report	27
Quality Control Results	28
Receiving Check List	46
Chain of Custody	Appended

Definitions

<http://www.teklabinc.com/>

Client: XDD, LLC

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Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surrogate Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| I - Associated internal standard was outside method criteria | J - Analyte detected below quantitation limits |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| T - TIC(Tentatively identified compound) | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Cooler Receipt Temp: 6.82 °C

Locations and Accreditations

	Collinsville	Springfield	Kansas City	Collinsville Air
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	Ryoungstrom@teklabinc.com	EHurley@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2017	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2017	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2017	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2017	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2017	Collinsville
Arkansas	ADEQ	88-0966		3/14/2017	Collinsville
Illinois	IDPH	17584		5/31/2017	Collinsville
Kentucky	KDEP	98006		12/31/2016	Collinsville
Kentucky	UST	0073		1/31/2017	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Missouri	MDNR	930		1/31/2017	Collinsville
Oklahoma	ODEQ	9978		8/31/2017	Collinsville

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-001

Client Sample ID: Trip Blank

Matrix: AQUEOUS

Collection Date: 10/20/2016 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
2-Butanone	NELAP	25.0		ND	µg/L	1	10/21/2016 12:07	123757
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	10/21/2016 12:07	123757
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
2-Hexanone	NELAP	25.0		ND	µg/L	1	10/21/2016 12:07	123757
2-Nitropropane	NELAP	50.0		ND	µg/L	1	10/21/2016 12:07	123757
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	10/21/2016 12:07	123757
Acetone	NELAP	25.0		ND	µg/L	1	10/21/2016 12:07	123757
Acetonitrile	NELAP	50.0		ND	µg/L	1	10/21/2016 12:07	123757
Acrolein	NELAP	100		ND	µg/L	1	10/21/2016 12:07	123757
Acrylonitrile	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Allyl chloride	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Benzene	NELAP	2.0		ND	µg/L	1	10/21/2016 12:07	123757
Bromobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Bromochloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Bromoform	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Bromomethane	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Carbon disulfide	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Chlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Chloroethane	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-001

Client Sample ID: Trip Blank

Matrix: AQUEOUS

Collection Date: 10/20/2016 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Chloromethane	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Chloroprene	NELAP	20.0		ND	µg/L	1	10/21/2016 12:07	123757
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Cyclohexanone		50.0		ND	µg/L	1	10/21/2016 12:07	123757
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Dibromomethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Ethyl acetate	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Ethyl ether	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Ethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Hexachloroethane	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Iodomethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	10/21/2016 12:07	123757
Methylacrylate	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Naphthalene	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
n-Butyl acetate		25.0		ND	µg/L	1	10/21/2016 12:07	123757
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
n-Heptane		20.0		ND	µg/L	1	10/21/2016 12:07	123757
n-Hexane		20.0		ND	µg/L	1	10/21/2016 12:07	123757
Nitrobenzene	NELAP	50.0		ND	µg/L	1	10/21/2016 12:07	123757
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
o-Xylene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Pentachloroethane	NELAP	20.0		ND	µg/L	1	10/21/2016 12:07	123757
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Propionitrile	NELAP	50.0		ND	µg/L	1	10/21/2016 12:07	123757
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Styrene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	10/21/2016 12:07	123757
Toluene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757
Trichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 12:07	123757
Vinyl acetate	NELAP	10.0		ND	µg/L	1	10/21/2016 12:07	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-001

Client Sample ID: Trip Blank

Matrix: AQUEOUS

Collection Date: 10/20/2016 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	10/21/2016 12:07	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		96.3	%REC	1	10/21/2016 12:07	123757
Surr: 4-Bromofluorobenzene		86-119		95.6	%REC	1	10/21/2016 12:07	123757
Surr: Dibromofluoromethane		81.7-123		90.5	%REC	1	10/21/2016 12:07	123757
Surr: Toluene-d8		84.3-114		102.2	%REC	1	10/21/2016 12:07	123757

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-002

Client Sample ID: TBI-1

Matrix: AQUEOUS

Collection Date: 10/20/2016 9:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
2-Butanone	NELAP	25.0		ND	µg/L	1	10/21/2016 15:35	123757
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	10/21/2016 15:35	123757
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
2-Hexanone	NELAP	25.0		ND	µg/L	1	10/21/2016 15:35	123757
2-Nitropropane	NELAP	50.0		ND	µg/L	1	10/21/2016 15:35	123757
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	10/21/2016 15:35	123757
Acetone	NELAP	25.0		ND	µg/L	1	10/21/2016 15:35	123757
Acetonitrile	NELAP	50.0		ND	µg/L	1	10/21/2016 15:35	123757
Acrolein	NELAP	100		ND	µg/L	1	10/21/2016 15:35	123757
Acrylonitrile	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Allyl chloride	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Benzene	NELAP	2.0		ND	µg/L	1	10/21/2016 15:35	123757
Bromobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Bromochloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Bromoform	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Bromomethane	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Carbon disulfide	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Chlorobenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Chloroethane	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-002

Client Sample ID: TBI-1

Matrix: AQUEOUS

Collection Date: 10/20/2016 9:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Chloromethane	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Chloroprene	NELAP	20.0		ND	µg/L	1	10/21/2016 15:35	123757
cis-1,2-Dichloroethene	NELAP	100		186	µg/L	20	10/21/2016 12:33	123757
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Cyclohexanone		50.0		ND	µg/L	1	10/21/2016 15:35	123757
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Dibromomethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Ethyl acetate	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Ethyl ether	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Ethylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Hexachloroethane	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Iodomethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
m,p-Xylenes	NELAP	5.0	J	1.3	µg/L	1	10/21/2016 15:35	123757
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	10/21/2016 15:35	123757
Methylacrylate	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Methylene chloride	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Naphthalene	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
n-Butyl acetate		25.0		ND	µg/L	1	10/21/2016 15:35	123757
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
n-Heptane		20.0		ND	µg/L	1	10/21/2016 15:35	123757
n-Hexane		20.0		ND	µg/L	1	10/21/2016 15:35	123757
Nitrobenzene	NELAP	50.0		ND	µg/L	1	10/21/2016 15:35	123757
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
o-Xylene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Pentachloroethane	NELAP	20.0		ND	µg/L	1	10/21/2016 15:35	123757
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Propionitrile	NELAP	50.0		ND	µg/L	1	10/21/2016 15:35	123757
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Styrene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	10/21/2016 15:35	123757
Toluene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
trans-1,2-Dichloroethene	NELAP	5.0	J	1.1	µg/L	1	10/21/2016 15:35	123757
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757
Trichloroethene	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	10/21/2016 15:35	123757
Vinyl acetate	NELAP	10.0		ND	µg/L	1	10/21/2016 15:35	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-002

Client Sample ID: TBI-1

Matrix: AQUEOUS

Collection Date: 10/20/2016 9:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		25.5	µg/L	1	10/21/2016 15:35	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		96.8	%REC	1	10/21/2016 15:35	123757
Surr: 4-Bromofluorobenzene		86-119		97.9	%REC	1	10/21/2016 15:35	123757
Surr: Dibromofluoromethane		81.7-123		90.4	%REC	1	10/21/2016 15:35	123757
Surr: Toluene-d8		84.3-114		102.3	%REC	1	10/21/2016 15:35	123757

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-003

Client Sample ID: TBI-3

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1,1-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1,2,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		400		ND	µg/L	20	10/21/2016 12:59	123757
1,1,2-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1-Dichloro-2-propanone		1000		ND	µg/L	20	10/21/2016 12:59	123757
1,1-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,1-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2,3-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2,3-Trichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2,3-Trimethylbenzene		100		ND	µg/L	20	10/21/2016 12:59	123757
1,2,4-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2,4-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2-Dibromo-3-chloropropane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2-Dibromoethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,3,5-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,3-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,3-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1,4-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
1-Chlorobutane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
2,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
2-Butanone	NELAP	500		ND	µg/L	20	10/21/2016 12:59	123757
2-Chloroethyl vinyl ether	NELAP	400		ND	µg/L	20	10/21/2016 12:59	123757
2-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
2-Hexanone	NELAP	500		ND	µg/L	20	10/21/2016 12:59	123757
2-Nitropropane	NELAP	1000		ND	µg/L	20	10/21/2016 12:59	123757
4-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
4-Methyl-2-pentanone	NELAP	500		ND	µg/L	20	10/21/2016 12:59	123757
Acetone	NELAP	500		ND	µg/L	20	10/21/2016 12:59	123757
Acetonitrile	NELAP	1000		ND	µg/L	20	10/21/2016 12:59	123757
Acrolein	NELAP	2000		ND	µg/L	20	10/21/2016 12:59	123757
Acrylonitrile	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Allyl chloride	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Benzene	NELAP	40.0		ND	µg/L	20	10/21/2016 12:59	123757
Bromobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Bromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Bromodichloromethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Bromoform	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Bromomethane	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Carbon disulfide	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Carbon tetrachloride	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Chlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Chloroethane	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-003

Client Sample ID: TBI-3

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Chloromethane	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Chloroprene	NELAP	400		ND	µg/L	20	10/21/2016 12:59	123757
cis-1,2-Dichloroethene	NELAP	100		343	µg/L	20	10/21/2016 12:59	123757
cis-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
cis-1,4-Dichloro-2-butene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Cyclohexanone		1000		ND	µg/L	20	10/21/2016 12:59	123757
Dibromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Dibromomethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Dichlorodifluoromethane	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Ethyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Ethyl ether	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Ethyl methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Ethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Hexachlorobutadiene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Hexachloroethane	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Iodomethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Isopropylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
m,p-Xylenes	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Methacrylonitrile	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Methyl Methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Methyl tert-butyl ether	NELAP	40.0		ND	µg/L	20	10/21/2016 12:59	123757
Methylacrylate	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Methylene chloride	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Naphthalene	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
n-Butyl acetate		500		ND	µg/L	20	10/21/2016 12:59	123757
n-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
n-Heptane		400		ND	µg/L	20	10/21/2016 12:59	123757
n-Hexane		400		ND	µg/L	20	10/21/2016 12:59	123757
Nitrobenzene	NELAP	1000		ND	µg/L	20	10/21/2016 12:59	123757
n-Propylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
o-Xylene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Pentachloroethane	NELAP	400		ND	µg/L	20	10/21/2016 12:59	123757
p-Isopropyltoluene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Propionitrile	NELAP	1000		ND	µg/L	20	10/21/2016 12:59	123757
sec-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Styrene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
tert-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Tetrachloroethene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Tetrahydrofuran	NELAP	400		ND	µg/L	20	10/21/2016 12:59	123757
Toluene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
trans-1,2-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
trans-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
trans-1,4-Dichloro-2-butene	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757
Trichloroethene	NELAP	100	J	68	µg/L	20	10/21/2016 12:59	123757
Trichlorofluoromethane	NELAP	100		ND	µg/L	20	10/21/2016 12:59	123757
Vinyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 12:59	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-003

Client Sample ID: TBI-3

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	40.0		250	µg/L	20	10/21/2016 12:59	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		94.1	%REC	20	10/21/2016 12:59	123757
Surr: 4-Bromofluorobenzene		86-119		97.1	%REC	20	10/21/2016 12:59	123757
Surr: Dibromofluoromethane		81.7-123		88.6	%REC	20	10/21/2016 12:59	123757
Surr: Toluene-d8		84.3-114		104.1	%REC	20	10/21/2016 12:59	123757

Elevated reporting limit due to high levels of target and/or non-target analytes.

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-004

Client Sample ID: TBI-5

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1,1-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1,2,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		400		ND	µg/L	20	10/21/2016 13:25	123757
1,1,2-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1-Dichloro-2-propanone		1000		ND	µg/L	20	10/21/2016 13:25	123757
1,1-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,1-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2,3-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2,3-Trichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2,3-Trimethylbenzene		100		ND	µg/L	20	10/21/2016 13:25	123757
1,2,4-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2,4-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2-Dibromo-3-chloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2-Dibromoethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,3,5-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,3-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,3-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1,4-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
1-Chlorobutane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
2,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
2-Butanone	NELAP	500		ND	µg/L	20	10/21/2016 13:25	123757
2-Chloroethyl vinyl ether	NELAP	400		ND	µg/L	20	10/21/2016 13:25	123757
2-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
2-Hexanone	NELAP	500		ND	µg/L	20	10/21/2016 13:25	123757
2-Nitropropane	NELAP	1000		ND	µg/L	20	10/21/2016 13:25	123757
4-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
4-Methyl-2-pentanone	NELAP	500		ND	µg/L	20	10/21/2016 13:25	123757
Acetone	NELAP	500		ND	µg/L	20	10/21/2016 13:25	123757
Acetonitrile	NELAP	1000		ND	µg/L	20	10/21/2016 13:25	123757
Acrolein	NELAP	2000		ND	µg/L	20	10/21/2016 13:25	123757
Acrylonitrile	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Allyl chloride	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Benzene	NELAP	40.0		ND	µg/L	20	10/21/2016 13:25	123757
Bromobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Bromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Bromodichloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Bromoform	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Bromomethane	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Carbon disulfide	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Carbon tetrachloride	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Chlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Chloroethane	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-004

Client Sample ID: TBI-5

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Chloromethane	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Chloroprene	NELAP	400		ND	µg/L	20	10/21/2016 13:25	123757
cis-1,2-Dichloroethene	NELAP	250		4350	µg/L	50	10/24/2016 12:30	123767
cis-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
cis-1,4-Dichloro-2-butene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Cyclohexanone		1000		ND	µg/L	20	10/21/2016 13:25	123757
Dibromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Dibromomethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Dichlorodifluoromethane	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Ethyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Ethyl ether	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Ethyl methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Ethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Hexachlorobutadiene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Hexachloroethane	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Iodomethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Isopropylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
m,p-Xylenes	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Methacrylonitrile	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Methyl Methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Methyl tert-butyl ether	NELAP	40.0		ND	µg/L	20	10/21/2016 13:25	123757
Methylacrylate	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Methylene chloride	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Naphthalene	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
n-Butyl acetate		500		ND	µg/L	20	10/21/2016 13:25	123757
n-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
n-Heptane		400		ND	µg/L	20	10/21/2016 13:25	123757
n-Hexane		400		ND	µg/L	20	10/21/2016 13:25	123757
Nitrobenzene	NELAP	1000		ND	µg/L	20	10/21/2016 13:25	123757
n-Propylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
o-Xylene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Pentachloroethane	NELAP	400		ND	µg/L	20	10/21/2016 13:25	123757
p-Isopropyltoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Propionitrile	NELAP	1000		ND	µg/L	20	10/21/2016 13:25	123757
sec-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Styrene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
tert-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Tetrachloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Tetrahydrofuran	NELAP	400		ND	µg/L	20	10/21/2016 13:25	123757
Toluene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
trans-1,2-Dichloroethene	NELAP	100	J	30	µg/L	20	10/21/2016 13:25	123757
trans-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
trans-1,4-Dichloro-2-butene	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757
Trichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Trichlorofluoromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:25	123757
Vinyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 13:25	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-004

Client Sample ID: TBI-5

Matrix: AQUEOUS

Collection Date: 10/20/2016 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	40.0		224	µg/L	20	10/21/2016 13:25	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		95.0	%REC	20	10/21/2016 13:25	123757
Surr: 4-Bromofluorobenzene		86-119		98.6	%REC	20	10/21/2016 13:25	123757
Surr: Dibromofluoromethane		81.7-123		88.5	%REC	20	10/21/2016 13:25	123757
Surr: Toluene-d8		84.3-114		102.4	%REC	20	10/21/2016 13:25	123757

Elevated reporting limit due to high levels of target and/or non-target analytes.

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-005

Client Sample ID: TBI-7

Matrix: AQUEOUS

Collection Date: 10/20/2016 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1,1-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1,2,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		400		ND	µg/L	20	10/21/2016 13:51	123757
1,1,2-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1-Dichloro-2-propanone		1000		ND	µg/L	20	10/21/2016 13:51	123757
1,1-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,1-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2,3-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2,3-Trichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2,3-Trimethylbenzene		100		ND	µg/L	20	10/21/2016 13:51	123757
1,2,4-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2,4-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2-Dibromo-3-chloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2-Dibromoethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,3,5-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,3-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,3-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1,4-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
1-Chlorobutane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
2,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
2-Butanone	NELAP	500		ND	µg/L	20	10/21/2016 13:51	123757
2-Chloroethyl vinyl ether	NELAP	400		ND	µg/L	20	10/21/2016 13:51	123757
2-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
2-Hexanone	NELAP	500		ND	µg/L	20	10/21/2016 13:51	123757
2-Nitropropane	NELAP	1000		ND	µg/L	20	10/21/2016 13:51	123757
4-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
4-Methyl-2-pentanone	NELAP	500		ND	µg/L	20	10/21/2016 13:51	123757
Acetone	NELAP	500		ND	µg/L	20	10/21/2016 13:51	123757
Acetonitrile	NELAP	1000		ND	µg/L	20	10/21/2016 13:51	123757
Acrolein	NELAP	2000		ND	µg/L	20	10/21/2016 13:51	123757
Acrylonitrile	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Allyl chloride	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Benzene	NELAP	40.0		ND	µg/L	20	10/21/2016 13:51	123757
Bromobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Bromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Bromodichloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Bromoform	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Bromomethane	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Carbon disulfide	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Carbon tetrachloride	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Chlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Chloroethane	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-005

Client Sample ID: TBI-7

Matrix: AQUEOUS

Collection Date: 10/20/2016 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Chloromethane	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Chloroprene	NELAP	400		ND	µg/L	20	10/21/2016 13:51	123757
cis-1,2-Dichloroethene	NELAP	100		1290	µg/L	20	10/21/2016 13:51	123757
cis-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
cis-1,4-Dichloro-2-butene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Cyclohexanone		1000		ND	µg/L	20	10/21/2016 13:51	123757
Dibromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Dibromomethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Dichlorodifluoromethane	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Ethyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Ethyl ether	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Ethyl methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Ethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Hexachlorobutadiene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Hexachloroethane	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Iodomethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Isopropylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
m,p-Xylenes	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Methacrylonitrile	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Methyl Methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Methyl tert-butyl ether	NELAP	40.0		ND	µg/L	20	10/21/2016 13:51	123757
Methylacrylate	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Methylene chloride	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Naphthalene	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
n-Butyl acetate		500		ND	µg/L	20	10/21/2016 13:51	123757
n-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
n-Heptane		400		ND	µg/L	20	10/21/2016 13:51	123757
n-Hexane		400		ND	µg/L	20	10/21/2016 13:51	123757
Nitrobenzene	NELAP	1000		ND	µg/L	20	10/21/2016 13:51	123757
n-Propylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
o-Xylene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Pentachloroethane	NELAP	400		ND	µg/L	20	10/21/2016 13:51	123757
p-Isopropyltoluene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Propionitrile	NELAP	1000		ND	µg/L	20	10/21/2016 13:51	123757
sec-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Styrene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
tert-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Tetrachloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Tetrahydrofuran	NELAP	400		ND	µg/L	20	10/21/2016 13:51	123757
Toluene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
trans-1,2-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
trans-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
trans-1,4-Dichloro-2-butene	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757
Trichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Trichlorofluoromethane	NELAP	100		ND	µg/L	20	10/21/2016 13:51	123757
Vinyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 13:51	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-005

Client Sample ID: TBI-7

Matrix: AQUEOUS

Collection Date: 10/20/2016 11:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	40.0		297	µg/L	20	10/21/2016 13:51	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		97.1	%REC	20	10/21/2016 13:51	123757
Surr: 4-Bromofluorobenzene		86-119		98.3	%REC	20	10/21/2016 13:51	123757
Surr: Dibromofluoromethane		81.7-123		88.3	%REC	20	10/21/2016 13:51	123757
Surr: Toluene-d8		84.3-114		102.1	%REC	20	10/21/2016 13:51	123757

Elevated reporting limit due to high levels of target and/or non-target analytes.

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-006

Client Sample ID: TBI-10

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1,1-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1,2,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		400		ND	µg/L	20	10/21/2016 14:17	123757
1,1,2-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1-Dichloro-2-propanone		1000		ND	µg/L	20	10/21/2016 14:17	123757
1,1-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,1-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2,3-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2,3-Trichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2,3-Trimethylbenzene		100		ND	µg/L	20	10/21/2016 14:17	123757
1,2,4-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2,4-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2-Dibromo-3-chloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2-Dibromoethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,3,5-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,3-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,3-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1,4-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
1-Chlorobutane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
2,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
2-Butanone	NELAP	500		ND	µg/L	20	10/21/2016 14:17	123757
2-Chloroethyl vinyl ether	NELAP	400		ND	µg/L	20	10/21/2016 14:17	123757
2-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
2-Hexanone	NELAP	500		ND	µg/L	20	10/21/2016 14:17	123757
2-Nitropropane	NELAP	1000		ND	µg/L	20	10/21/2016 14:17	123757
4-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
4-Methyl-2-pentanone	NELAP	500		ND	µg/L	20	10/21/2016 14:17	123757
Acetone	NELAP	500		ND	µg/L	20	10/21/2016 14:17	123757
Acetonitrile	NELAP	1000		ND	µg/L	20	10/21/2016 14:17	123757
Acrolein	NELAP	2000		ND	µg/L	20	10/21/2016 14:17	123757
Acrylonitrile	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Allyl chloride	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Benzene	NELAP	40.0		ND	µg/L	20	10/21/2016 14:17	123757
Bromobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Bromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Bromodichloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Bromoform	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Bromomethane	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Carbon disulfide	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Carbon tetrachloride	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Chlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Chloroethane	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-006

Client Sample ID: TBI-10

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Chloromethane	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Chloroprene	NELAP	400		ND	µg/L	20	10/21/2016 14:17	123757
cis-1,2-Dichloroethene	NELAP	100		1010	µg/L	20	10/21/2016 14:17	123757
cis-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
cis-1,4-Dichloro-2-butene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Cyclohexanone		1000		ND	µg/L	20	10/21/2016 14:17	123757
Dibromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Dibromomethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Dichlorodifluoromethane	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Ethyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Ethyl ether	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Ethyl methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Ethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Hexachlorobutadiene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Hexachloroethane	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Iodomethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Isopropylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
m,p-Xylenes	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Methacrylonitrile	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Methyl Methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Methyl tert-butyl ether	NELAP	40.0		ND	µg/L	20	10/21/2016 14:17	123757
Methylacrylate	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Methylene chloride	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Naphthalene	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
n-Butyl acetate		500		ND	µg/L	20	10/21/2016 14:17	123757
n-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
n-Heptane		400		ND	µg/L	20	10/21/2016 14:17	123757
n-Hexane		400		ND	µg/L	20	10/21/2016 14:17	123757
Nitrobenzene	NELAP	1000		ND	µg/L	20	10/21/2016 14:17	123757
n-Propylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
o-Xylene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Pentachloroethane	NELAP	400		ND	µg/L	20	10/21/2016 14:17	123757
p-Isopropyltoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Propionitrile	NELAP	1000		ND	µg/L	20	10/21/2016 14:17	123757
sec-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Styrene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
tert-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Tetrachloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Tetrahydrofuran	NELAP	400		ND	µg/L	20	10/21/2016 14:17	123757
Toluene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
trans-1,2-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
trans-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
trans-1,4-Dichloro-2-butene	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757
Trichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Trichlorofluoromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:17	123757
Vinyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 14:17	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-006

Client Sample ID: TBI-10

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	40.0		1090	µg/L	20	10/21/2016 14:17	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		95.0	%REC	20	10/21/2016 14:17	123757
Surr: 4-Bromofluorobenzene		86-119		97.5	%REC	20	10/21/2016 14:17	123757
Surr: Dibromofluoromethane		81.7-123		89.7	%REC	20	10/21/2016 14:17	123757
Surr: Toluene-d8		84.3-114		104.3	%REC	20	10/21/2016 14:17	123757

Elevated reporting limit due to high levels of target and/or non-target analytes.

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-007

Client Sample ID: TBI-8

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1,1-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1,2,2-Tetrachloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1,2-Trichloro-1,2,2-trifluoroethane		400		ND	µg/L	20	10/21/2016 14:43	123757
1,1,2-Trichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1-Dichloro-2-propanone		1000		ND	µg/L	20	10/21/2016 14:43	123757
1,1-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,1-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2,3-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2,3-Trichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2,3-Trimethylbenzene		100		ND	µg/L	20	10/21/2016 14:43	123757
1,2,4-Trichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2,4-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2-Dibromo-3-chloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2-Dibromoethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2-Dichloroethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,3,5-Trimethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,3-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,3-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1,4-Dichlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
1-Chlorobutane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
2,2-Dichloropropane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
2-Butanone	NELAP	500		ND	µg/L	20	10/21/2016 14:43	123757
2-Chloroethyl vinyl ether	NELAP	400		ND	µg/L	20	10/21/2016 14:43	123757
2-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
2-Hexanone	NELAP	500		ND	µg/L	20	10/21/2016 14:43	123757
2-Nitropropane	NELAP	1000		ND	µg/L	20	10/21/2016 14:43	123757
4-Chlorotoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
4-Methyl-2-pentanone	NELAP	500		ND	µg/L	20	10/21/2016 14:43	123757
Acetone	NELAP	500		ND	µg/L	20	10/21/2016 14:43	123757
Acetonitrile	NELAP	1000		ND	µg/L	20	10/21/2016 14:43	123757
Acrolein	NELAP	2000		ND	µg/L	20	10/21/2016 14:43	123757
Acrylonitrile	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Allyl chloride	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Benzene	NELAP	40.0		ND	µg/L	20	10/21/2016 14:43	123757
Bromobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Bromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Bromodichloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Bromoform	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Bromomethane	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Carbon disulfide	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Carbon tetrachloride	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Chlorobenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Chloroethane	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757

Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-007

Client Sample ID: TBI-8

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Chloromethane	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Chloroprene	NELAP	400		ND	µg/L	20	10/21/2016 14:43	123757
cis-1,2-Dichloroethene	NELAP	100		372	µg/L	20	10/21/2016 14:43	123757
cis-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
cis-1,4-Dichloro-2-butene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Cyclohexanone		1000		ND	µg/L	20	10/21/2016 14:43	123757
Dibromochloromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Dibromomethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Dichlorodifluoromethane	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Ethyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Ethyl ether	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Ethyl methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Ethylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Hexachlorobutadiene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Hexachloroethane	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Iodomethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Isopropylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
m,p-Xylenes	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Methacrylonitrile	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Methyl Methacrylate	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Methyl tert-butyl ether	NELAP	40.0		ND	µg/L	20	10/21/2016 14:43	123757
Methylacrylate	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Methylene chloride	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Naphthalene	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
n-Butyl acetate		500		ND	µg/L	20	10/21/2016 14:43	123757
n-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
n-Heptane		400		ND	µg/L	20	10/21/2016 14:43	123757
n-Hexane		400		ND	µg/L	20	10/21/2016 14:43	123757
Nitrobenzene	NELAP	1000		ND	µg/L	20	10/21/2016 14:43	123757
n-Propylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
o-Xylene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Pentachloroethane	NELAP	400		ND	µg/L	20	10/21/2016 14:43	123757
p-Isopropyltoluene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Propionitrile	NELAP	1000		ND	µg/L	20	10/21/2016 14:43	123757
sec-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Styrene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
tert-Butylbenzene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Tetrachloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Tetrahydrofuran	NELAP	400		ND	µg/L	20	10/21/2016 14:43	123757
Toluene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
trans-1,2-Dichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
trans-1,3-Dichloropropene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
trans-1,4-Dichloro-2-butene	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757
Trichloroethene	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Trichlorofluoromethane	NELAP	100		ND	µg/L	20	10/21/2016 14:43	123757
Vinyl acetate	NELAP	200		ND	µg/L	20	10/21/2016 14:43	123757



Laboratory Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab ID: 16101279-007

Client Sample ID: TBI-8

Matrix: AQUEOUS

Collection Date: 10/20/2016 12:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	40.0	J	28	µg/L	20	10/21/2016 14:43	123757
Surr: 1,2-Dichloroethane-d4		74.7-129		96.2	%REC	20	10/21/2016 14:43	123757
Surr: 4-Bromofluorobenzene		86-119		96.0	%REC	20	10/21/2016 14:43	123757
Surr: Dibromofluoromethane		81.7-123		86.5	%REC	20	10/21/2016 14:43	123757
Surr: Toluene-d8		84.3-114		102.1	%REC	20	10/21/2016 14:43	123757

Elevated reporting limit due to high levels of target and/or non-target analytes.

Allowable Marginal Exceedance of trichlorofluoromethane in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Sample Summary

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
16101279-001	Trip Blank	Aqueous	1	10/20/2016 17:00
16101279-002	TBI-1	Aqueous	1	10/20/2016 9:40
16101279-003	TBI-3	Aqueous	1	10/20/2016 10:15
16101279-004	TBI-5	Aqueous	1	10/20/2016 10:50
16101279-005	TBI-7	Aqueous	1	10/20/2016 11:20
16101279-006	TBI-10	Aqueous	1	10/20/2016 12:00
16101279-007	TBI-8	Aqueous	1	10/20/2016 12:52

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
16101279-001A	Trip Blank	10/20/2016 17:00	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 12:07
16101279-002A	TBI-1	10/20/2016 9:40	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 12:33
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 15:35
16101279-003A	TBI-3	10/20/2016 10:15	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 12:59
16101279-004A	TBI-5	10/20/2016 10:50	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 13:25
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/24/2016 12:30
16101279-005A	TBI-7	10/20/2016 11:20	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 13:51
16101279-006A	TBI-10	10/20/2016 12:00	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 14:17
16101279-007A	TBI-8	10/20/2016 12:52	10/20/2016 17:00		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				10/21/2016 14:43

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	MBLK	Units	µg/L						Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0		ND							10/21/2016
1,1,1-Trichloroethane		5.0		ND							10/21/2016
1,1,2,2-Tetrachloroethane		5.0		ND							10/21/2016
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND							10/21/2016
1,1,2-Trichloroethane		5.0		ND							10/21/2016
1,1-Dichloro-2-propanone		50.0		ND							10/21/2016
1,1-Dichloroethane		5.0		ND							10/21/2016
1,1-Dichloroethene		5.0		ND							10/21/2016
1,1-Dichloropropene		5.0		ND							10/21/2016
1,2,3-Trichlorobenzene		5.0		ND							10/21/2016
1,2,3-Trichloropropane		5.0		ND							10/21/2016
1,2,3-Trimethylbenzene		5.0		ND							10/21/2016
1,2,4-Trichlorobenzene		5.0		ND							10/21/2016
1,2,4-Trimethylbenzene		5.0		ND							10/21/2016
1,2-Dibromo-3-chloropropane		5.0		ND							10/21/2016
1,2-Dibromoethane		5.0		ND							10/21/2016
1,2-Dichlorobenzene		5.0		ND							10/21/2016
1,2-Dichloroethane		5.0		ND							10/21/2016
1,2-Dichloropropane		5.0		ND							10/21/2016
1,3,5-Trimethylbenzene		5.0		ND							10/21/2016
1,3-Dichlorobenzene		5.0		ND							10/21/2016
1,3-Dichloropropane		5.0		ND							10/21/2016
1,4-Dichlorobenzene		5.0		ND							10/21/2016
1-Chlorobutane		5.0		ND							10/21/2016
2,2-Dichloropropane		5.0		ND							10/21/2016
2-Butanone		25.0		ND							10/21/2016
2-Chloroethyl vinyl ether		20.0		ND							10/21/2016
2-Chlorotoluene		5.0		ND							10/21/2016
2-Hexanone		25.0		ND							10/21/2016
2-Nitropropane		50.0		ND							10/21/2016
4-Chlorotoluene		5.0		ND							10/21/2016
4-Methyl-2-pentanone		25.0		ND							10/21/2016
Acetone		25.0		ND							10/21/2016
Acetonitrile		50.0		ND							10/21/2016
Acrolein		100		ND							10/21/2016
Acrylonitrile		5.0		ND							10/21/2016
Allyl chloride		5.0		ND							10/21/2016
Benzene		2.0		ND							10/21/2016
Bromobenzene		5.0		ND							10/21/2016
Bromochloromethane		5.0		ND							10/21/2016
Bromodichloromethane		5.0		ND							10/21/2016
Bromoform		5.0		ND							10/21/2016
Bromomethane		10.0		ND							10/21/2016
Carbon disulfide		5.0		ND							10/21/2016
Carbon tetrachloride		5.0		ND							10/21/2016
Chlorobenzene		5.0		ND							10/21/2016
Chloroethane		10.0		ND							10/21/2016

Quality Control Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	MBLK	Units	µg/L	Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
						SampID: MBLK-T161021A-1										
Chloroform				5.0					ND							10/21/2016
Chloromethane				10.0					ND							10/21/2016
Chloroprene				20.0					ND							10/21/2016
cis-1,2-Dichloroethene				5.0					ND							10/21/2016
cis-1,3-Dichloropropene				5.0					ND							10/21/2016
cis-1,4-Dichloro-2-butene				5.0					ND							10/21/2016
Cyclohexanone				50.0					ND							10/21/2016
Dibromochloromethane				5.0					ND							10/21/2016
Dibromomethane				5.0					ND							10/21/2016
Dichlorodifluoromethane				10.0					ND							10/21/2016
Ethyl acetate				10.0					ND							10/21/2016
Ethyl ether				5.0					ND							10/21/2016
Ethyl methacrylate				5.0					ND							10/21/2016
Ethylbenzene				5.0					ND							10/21/2016
Hexachlorobutadiene				5.0					ND							10/21/2016
Hexachloroethane				10.0					ND							10/21/2016
Iodomethane				5.0					ND							10/21/2016
Isopropylbenzene				5.0					ND							10/21/2016
m,p-Xylenes				5.0					ND							10/21/2016
Methacrylonitrile				10.0					ND							10/21/2016
Methyl Methacrylate				5.0					ND							10/21/2016
Methyl tert-butyl ether				2.0					ND							10/21/2016
Methylacrylate				10.0					ND							10/21/2016
Methylene chloride				5.0					ND							10/21/2016
Naphthalene				10.0					ND							10/21/2016
n-Butyl acetate				25.0					ND							10/21/2016
n-Butylbenzene				5.0					ND							10/21/2016
n-Heptane				20.0					ND							10/21/2016
n-Hexane				20.0					ND							10/21/2016
Nitrobenzene				50.0					ND							10/21/2016
n-Propylbenzene				5.0					ND							10/21/2016
o-Xylene				5.0					ND							10/21/2016
Pentachloroethane				20.0					ND							10/21/2016
p-Isopropyltoluene				5.0					ND							10/21/2016
Propionitrile				50.0					ND							10/21/2016
sec-Butylbenzene				5.0					ND							10/21/2016
Styrene				5.0					ND							10/21/2016
tert-Butylbenzene				5.0					ND							10/21/2016
Tetrachloroethene				5.0					ND							10/21/2016
Tetrahydrofuran				20.0					ND							10/21/2016
Toluene				5.0					ND							10/21/2016
trans-1,2-Dichloroethene				5.0					ND							10/21/2016
trans-1,3-Dichloropropene				5.0					ND							10/21/2016
trans-1,4-Dichloro-2-butene				10.0					ND							10/21/2016
Trichloroethene				5.0					ND							10/21/2016
Trichlorofluoromethane				5.0					ND							10/21/2016
Vinyl acetate				10.0					ND							10/21/2016



Quality Control Results

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Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	MBLK	Units	µg/L						Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
Vinyl chloride		2.0		ND							10/21/2016
Surr: 1,2-Dichloroethane-d4				48.0	50.00		96.0		74.7	129	10/21/2016
Surr: 4-Bromofluorobenzene				49.9	50.00		99.8		86	119	10/21/2016
Surr: Dibromofluoromethane				45.5	50.00		91.0		81.7	123	10/21/2016
Surr: Toluene-d8				50.3	50.00		100.6		84.3	114	10/21/2016

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType:	LCSD	Units	µg/L	RPD Limit 40						Date Analyzed	
SamplID: LCSD-T161021A-1													
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD
1,1,1,2-Tetrachloroethane		5.0				47.5	50.00	0	95.0		46.62	1.89	10/21/2016
1,1,1-Trichloroethane		5.0				46.1	50.00	0	92.3		45.40	1.60	10/21/2016
1,1,2,2-Tetrachloroethane		5.0				47.5	50.00	0	95.0		48.19	1.46	10/21/2016
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0				41.9	50.00	0	83.8		41.65	0.57	10/21/2016
1,1,2-Trichloroethane		5.0				46.0	50.00	0	91.9		46.02	0.15	10/21/2016
1,1-Dichloro-2-propanone		50.0				116	125.0	0	92.8		107.6	7.55	10/21/2016
1,1-Dichloroethane		5.0				43.8	50.00	0	87.6		43.50	0.73	10/21/2016
1,1-Dichloroethene		5.0				41.7	50.00	0	83.5		42.27	1.29	10/21/2016
1,1-Dichloropropene		5.0				46.8	50.00	0	93.6		46.42	0.86	10/21/2016
1,2,3-Trichlorobenzene		5.0				49.3	50.00	0	98.7		48.99	0.69	10/21/2016
1,2,3-Trichloropropane		5.0				47.8	50.00	0	95.6		48.10	0.63	10/21/2016
1,2,3-Trimethylbenzene		5.0				46.8	50.00	0	93.6		47.14	0.70	10/21/2016
1,2,4-Trichlorobenzene		5.0				47.6	50.00	0	95.1		48.90	2.78	10/21/2016
1,2,4-Trimethylbenzene		5.0				47.4	50.00	0	94.9		47.30	0.30	10/21/2016
1,2-Dibromo-3-chloropropane		5.0				47.9	50.00	0	95.8		45.50	5.12	10/21/2016
1,2-Dibromoethane		5.0				45.7	50.00	0	91.4		46.70	2.19	10/21/2016
1,2-Dichlorobenzene		5.0				45.9	50.00	0	91.7		46.23	0.78	10/21/2016
1,2-Dichloroethane		5.0				44.8	50.00	0	89.7		44.54	0.69	10/21/2016
1,2-Dichloropropane		5.0				46.1	50.00	0	92.3		46.03	0.22	10/21/2016
1,3,5-Trimethylbenzene		5.0				47.0	50.00	0	93.9		46.31	1.42	10/21/2016
1,3-Dichlorobenzene		5.0				48.2	50.00	0	96.4		49.24	2.18	10/21/2016
1,3-Dichloropropane		5.0				46.1	50.00	0	92.2		45.73	0.81	10/21/2016
1,4-Dichlorobenzene		5.0				47.6	50.00	0	95.2		47.85	0.48	10/21/2016
1-Chlorobutane		5.0				44.8	50.00	0	89.5		44.03	1.67	10/21/2016
2,2-Dichloropropane		5.0				51.5	50.00	0	103.0		51.77	0.52	10/21/2016
2-Butanone		25.0				116	125.0	0	92.8		111.1	4.36	10/21/2016
2-Chloroethyl vinyl ether		20.0				43.8	50.00	0	87.6		44.07	0.66	10/21/2016
2-Chlorotoluene		5.0				48.9	50.00	0	97.8		49.03	0.31	10/21/2016
2-Hexanone		25.0				125	125.0	0	99.8		117.9	5.60	10/21/2016
2-Nitropropane		50.0				479	500.0	0	95.7		456.8	4.66	10/21/2016
4-Chlorotoluene		5.0				49.5	50.00	0	99.0		49.26	0.47	10/21/2016
4-Methyl-2-pentanone		25.0				120	125.0	0	96.2		114.8	4.62	10/21/2016
Acetone		25.0				102	125.0	0	81.9		102.0	0.36	10/21/2016
Acetonitrile		50.0				460	500.0	0	91.9		419.1	9.22	10/21/2016
Acrolein		100				990	500.0	0	198.0		960.4	3.03	10/21/2016
Acrylonitrile		5.0				50.7	50.00	0	101.5		48.45	4.60	10/21/2016
Allyl chloride		5.0				55.2	50.00	0	110.5		51.72	6.56	10/21/2016
Benzene		2.0				45.6	50.00	0	91.3		44.81	1.86	10/21/2016
Bromobenzene		5.0				47.2	50.00	0	94.3		47.42	0.57	10/21/2016
Bromochloromethane		5.0				41.9	50.00	0	83.8		42.23	0.78	10/21/2016
Bromodichloromethane		5.0				44.7	50.00	0	89.5		44.86	0.29	10/21/2016
Bromoform		5.0				47.6	50.00	0	95.1		47.10	0.95	10/21/2016
Bromomethane		10.0				50.1	50.00	0	100.2		43.26	14.65	10/21/2016
Carbon disulfide		5.0				39.4	50.00	0	78.8		38.86	1.33	10/21/2016
Carbon tetrachloride		5.0				44.8	50.00	0	89.7		44.46	0.83	10/21/2016
Chlorobenzene		5.0				46.6	50.00	0	93.2		46.92	0.68	10/21/2016
Chloroethane		10.0				47.0	50.00	0	94.1		47.76	1.52	10/21/2016

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType:	LCSD	Units	µg/L	RPD Limit 40						Date Analyzed		
				SampleID:	LCSD-T161021A-1	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Analyses														
Chloroform				5.0		44.1	50.00	0	88.2	44.28	0.38	10/21/2016		
Chloromethane				10.0		36.6	50.00	0	73.3	36.79	0.41	10/21/2016		
Chloroprene				20.0		44.1	50.00	0	88.2	42.85	2.88	10/21/2016		
cis-1,2-Dichloroethene				5.0		45.6	50.00	0	91.2	45.03	1.21	10/21/2016		
cis-1,3-Dichloropropene				5.0		44.9	50.00	0	89.8	45.08	0.42	10/21/2016		
cis-1,4-Dichloro-2-butene				5.0		52.0	50.00	0	104.0	51.11	1.71	10/21/2016		
Cyclohexanone				50.0		47.0	500.0	0	93.9	421.0	10.91	10/21/2016		
Dibromochloromethane				5.0		45.7	50.00	0	91.5	46.00	0.59	10/21/2016		
Dibromomethane				5.0		43.5	50.00	0	86.9	43.25	0.51	10/21/2016		
Dichlorodifluoromethane				10.0		22.1	50.00	0	44.1	21.41	2.99	10/21/2016		
Ethyl acetate				10.0		51.6	50.00	0	103.2	47.91	7.40	10/21/2016		
Ethyl ether				5.0		41.7	50.00	0	83.4	41.63	0.17	10/21/2016		
Ethyl methacrylate				5.0		47.4	50.00	0	94.8	46.51	1.94	10/21/2016		
Ethylbenzene				5.0		48.6	50.00	0	97.1	47.35	2.50	10/21/2016		
Hexachlorobutadiene				5.0		53.0	50.00	0	106.0	53.11	0.23	10/21/2016		
Hexachloroethane				10.0		46.4	50.00	0	92.8	47.09	1.52	10/21/2016		
Iodomethane				5.0		37.7	50.00	0	75.3	36.95	1.90	10/21/2016		
Isopropylbenzene				5.0		47.7	50.00	0	95.5	46.50	2.63	10/21/2016		
m,p-Xylenes				5.0		94.8	100.0	0	94.8	96.23	1.54	10/21/2016		
Methacrylonitrile				10.0		47.1	50.00	0	94.3	46.08	2.25	10/21/2016		
Methyl Methacrylate				5.0		45.6	50.00	0	91.3	45.04	1.30	10/21/2016		
Methyl tert-butyl ether				2.0		41.6	50.00	0	83.1	41.56	0.00	10/21/2016		
Methylacrylate				10.0		48.5	50.00	0	97.0	46.66	3.89	10/21/2016		
Methylene chloride				5.0		42.7	50.00	0	85.4	42.33	0.85	10/21/2016		
Naphthalene				10.0		50.3	50.00	0	100.5	49.23	2.07	10/21/2016		
n-Butyl acetate				25.0		49.0	50.00	0	98.1	48.21	1.73	10/21/2016		
n-Butylbenzene				5.0		45.9	50.00	0	91.7	46.34	1.04	10/21/2016		
n-Heptane				20.0		42.3	50.00	0	84.7	42.41	0.17	10/21/2016		
n-Hexane				20.0		40.3	50.00	0	80.6	39.73	1.37	10/21/2016		
Nitrobenzene				50.0		515	500.0	0	103.0	473.0	8.45	10/21/2016		
n-Propylbenzene				5.0		50.0	50.00	0	99.9	49.45	1.05	10/21/2016		
o-Xylene				5.0		46.8	50.00	0	93.7	45.60	2.68	10/21/2016		
Pentachloroethane				20.0		51.1	50.00	0	102.3	50.77	0.73	10/21/2016		
p-Isopropyltoluene				5.0		47.2	50.00	0	94.3	48.00	1.77	10/21/2016		
Propionitrile				50.0		488	500.0	0	97.7	473.6	3.06	10/21/2016		
sec-Butylbenzene				5.0		47.1	50.00	0	94.2	48.30	2.56	10/21/2016		
Styrene				5.0		47.2	50.00	0	94.5	46.15	2.31	10/21/2016		
tert-Butylbenzene				5.0		47.0	50.00	0	94.0	46.63	0.77	10/21/2016		
Tetrachloroethene				5.0		45.8	50.00	0	91.6	45.31	1.10	10/21/2016		
Tetrahydrofuran				20.0		46.6	50.00	0	93.2	43.68	6.47	10/21/2016		
Toluene				5.0		47.6	50.00	0	95.1	48.07	1.05	10/21/2016		
trans-1,2-Dichloroethene				5.0		45.8	50.00	0	91.6	45.80	0.04	10/21/2016		
trans-1,3-Dichloropropene				5.0		46.3	50.00	0	92.7	46.15	0.41	10/21/2016		
trans-1,4-Dichloro-2-butene				10.0		53.3	50.00	0	106.6	53.21	0.15	10/21/2016		
Trichloroethene				5.0		44.6	50.00	0	89.1	44.04	1.17	10/21/2016		
Trichlorofluoromethane				5.0		38.8	50.00	0	77.6	37.43	3.57	10/21/2016		
Vinyl acetate				10.0		48.6	50.00	0	97.2	48.48	0.25	10/21/2016		



Quality Control Results

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Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	LCSD	Units	µg/L	RPD Limit 40						
SampID: LCSD-T161021A-1										Date Analyzed		
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Vinyl chloride		2.0		43.5	50.00	0	87.0		43.06		0.97	10/21/2016
Surr: 1,2-Dichloroethane-d4				47.8	50.00		95.7					10/21/2016
Surr: 4-Bromofluorobenzene				48.0	50.00		96.0					10/21/2016
Surr: Dibromofluoromethane				45.3	50.00		90.6					10/21/2016
Surr: Toluene-d8				50.6	50.00		101.3					10/21/2016

Quality Control Results

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Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 123757	SampType: LCS	Units µg/L							
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	5.0		46.6	50.00	0	93.2	81.9	115	10/21/2016
1,1,1-Trichloroethane	5.0		45.4	50.00	0	90.8	79.4	124	10/21/2016
1,1,2,2-Tetrachloroethane	5.0		48.2	50.00	0	96.4	74.7	116	10/21/2016
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0		41.6	50.00	0	83.3	72.9	121	10/21/2016
1,1,2-Trichloroethane	5.0		46.0	50.00	0	92.0	80.8	111	10/21/2016
1,1-Dichloro-2-propanone	50.0		108	125.0	0	86.1	66.3	130	10/21/2016
1,1-Dichloroethane	5.0		43.5	50.00	0	87.0	79.4	114	10/21/2016
1,1-Dichloroethene	5.0		42.3	50.00	0	84.5	74.1	117	10/21/2016
1,1-Dichloropropene	5.0		46.4	50.00	0	92.8	81.7	116	10/21/2016
1,2,3-Trichlorobenzene	5.0		49.0	50.00	0	98.0	79.7	118	10/21/2016
1,2,3-Trichloropropane	5.0		48.1	50.00	0	96.2	77.3	112	10/21/2016
1,2,3-Trimethylbenzene	5.0		47.1	50.00	0	94.3	79.9	119	10/21/2016
1,2,4-Trichlorobenzene	5.0		48.9	50.00	0	97.8	79.3	118	10/21/2016
1,2,4-Trimethylbenzene	5.0		47.3	50.00	0	94.6	78.7	115	10/21/2016
1,2-Dibromo-3-chloropropane	5.0		45.5	50.00	0	91.0	76	122	10/21/2016
1,2-Dibromoethane	5.0		46.7	50.00	0	93.4	80.8	114	10/21/2016
1,2-Dichlorobenzene	5.0		46.2	50.00	0	92.5	78.3	112	10/21/2016
1,2-Dichloroethane	5.0		44.5	50.00	0	89.1	70.6	118	10/21/2016
1,2-Dichloropropane	5.0		46.0	50.00	0	92.1	79.6	113	10/21/2016
1,3,5-Trimethylbenzene	5.0		46.3	50.00	0	92.6	77.5	115	10/21/2016
1,3-Dichlorobenzene	5.0		49.2	50.00	0	98.5	78.6	117	10/21/2016
1,3-Dichloropropane	5.0		45.7	50.00	0	91.5	78.8	112	10/21/2016
1,4-Dichlorobenzene	5.0		47.8	50.00	0	95.7	77.8	114	10/21/2016
1-Chlorobutane	5.0		44.0	50.00	0	88.1	78.6	115	10/21/2016
2,2-Dichloropropane	5.0		51.8	50.00	0	103.5	74.9	130	10/21/2016
2-Butanone	25.0		111	125.0	0	88.9	70.7	136	10/21/2016
2-Chloroethyl vinyl ether	20.0		44.1	50.00	0	88.1	52.5	145	10/21/2016
2-Chlorotoluene	5.0		49.0	50.00	0	98.1	77.4	114	10/21/2016
2-Hexanone	25.0		118	125.0	0	94.3	73.3	125	10/21/2016
2-Nitropropane	50.0		457	500.0	0	91.4	67.3	139	10/21/2016
4-Chlorotoluene	5.0		49.3	50.00	0	98.5	78.3	115	10/21/2016
4-Methyl-2-pentanone	25.0		115	125.0	0	91.8	76.3	122	10/21/2016
Acetone	25.0		102	125.0	0	81.6	56.4	147	10/21/2016
Acetonitrile	50.0		419	500.0	0	83.8	59.3	129	10/21/2016
Acrolein	100		960	500.0	0	192.1	1	201	10/21/2016
Acrylonitrile	5.0		48.4	50.00	0	96.9	74.1	128	10/21/2016
Allyl chloride	5.0		51.7	50.00	0	103.4	71.5	123	10/21/2016
Benzene	2.0		44.8	50.00	0	89.6	80	114	10/21/2016
Bromobenzene	5.0		47.4	50.00	0	94.8	73.2	118	10/21/2016
Bromochloromethane	5.0		42.2	50.00	0	84.5	73.3	121	10/21/2016
Bromodichloromethane	5.0		44.9	50.00	0	89.7	81.6	121	10/21/2016
Bromoform	5.0		47.1	50.00	0	94.2	83.1	127	10/21/2016
Bromomethane	10.0		43.3	50.00	0	86.5	44.4	154	10/21/2016
Carbon disulfide	5.0		38.9	50.00	0	77.7	73.2	118	10/21/2016
Carbon tetrachloride	5.0		44.5	50.00	0	88.9	79.4	130	10/21/2016
Chlorobenzene	5.0		46.9	50.00	0	93.8	81.4	110	10/21/2016
Chloroethane	10.0		47.8	50.00	0	95.5	52.1	137	10/21/2016

Quality Control Results

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Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	LCS	Units	µg/L	Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
						SampID:	LCS-T161021A-1										
Chloroform				5.0		44.3	50.00	0	88.6					82.7	116	10/21/2016	
Chloromethane				10.0		36.8	50.00	0	73.6					48.2	144	10/21/2016	
Chloroprene				20.0		42.8	50.00	0	85.7					80.6	126	10/21/2016	
cis-1,2-Dichloroethene				5.0		45.0	50.00	0	90.1					78.2	116	10/21/2016	
cis-1,3-Dichloropropene				5.0		45.1	50.00	0	90.2					83	119	10/21/2016	
cis-1,4-Dichloro-2-butene				5.0		51.1	50.00	0	102.2					60.7	137	10/21/2016	
Cyclohexanone				50.0		421	500.0	0	84.2					54.2	145	10/21/2016	
Dibromochloromethane				5.0		46.0	50.00	0	92.0					81.2	121	10/21/2016	
Dibromomethane				5.0		43.2	50.00	0	86.5					78.3	118	10/21/2016	
Dichlorodifluoromethane				10.0		21.4	50.00	0	42.8					20.6	154	10/21/2016	
Ethyl acetate				10.0		47.9	50.00	0	95.8					73.1	116	10/21/2016	
Ethyl ether				5.0		41.6	50.00	0	83.3					75.2	109	10/21/2016	
Ethyl methacrylate				5.0		46.5	50.00	0	93.0					80.1	113	10/21/2016	
Ethylbenzene				5.0		47.4	50.00	0	94.7					77.2	113	10/21/2016	
Hexachlorobutadiene				5.0		53.1	50.00	0	106.2					77.3	123	10/21/2016	
Hexachloroethane				10.0		47.1	50.00	0	94.2					74.6	117	10/21/2016	
Iodomethane				5.0		37.0	50.00	0	73.9					61.3	140	10/21/2016	
Isopropylbenzene				5.0		46.5	50.00	0	93.0					81.3	114	10/21/2016	
m,p-Xylenes				5.0		96.2	100.0	0	96.2					79.6	113	10/21/2016	
Methacrylonitrile				10.0		46.1	50.00	0	92.2					77.2	125	10/21/2016	
Methyl Methacrylate				5.0		45.0	50.00	0	90.1					74.2	121	10/21/2016	
Methyl tert-butyl ether				2.0		41.6	50.00	0	83.1					76.8	117	10/21/2016	
Methylacrylate				10.0		46.7	50.00	0	93.3					78	124	10/21/2016	
Methylene chloride				5.0		42.3	50.00	0	84.7					74.1	114	10/21/2016	
Naphthalene				10.0		49.2	50.00	0	98.5					77.9	122	10/21/2016	
n-Butyl acetate				25.0		48.2	50.00	0	96.4					74	120	10/21/2016	
n-Butylbenzene				5.0		46.3	50.00	0	92.7					71.1	120	10/21/2016	
n-Heptane				20.0		42.4	50.00	0	84.8					67.4	129	10/21/2016	
n-Hexane				20.0		39.7	50.00	0	79.5					68.4	126	10/21/2016	
Nitrobenzene				50.0		473	500.0	0	94.6					37.9	181	10/21/2016	
n-Propylbenzene				5.0		49.4	50.00	0	98.9					74.6	118	10/21/2016	
o-Xylene				5.0		45.6	50.00	0	91.2					80.1	111	10/21/2016	
Pentachloroethane				20.0		50.8	50.00	0	101.5					78.8	117	10/21/2016	
p-Isopropyltoluene				5.0		48.0	50.00	0	96.0					77.6	118	10/21/2016	
Propionitrile				50.0		474	500.0	0	94.7					72.9	137	10/21/2016	
sec-Butylbenzene				5.0		48.3	50.00	0	96.6					74.5	119	10/21/2016	
Styrene				5.0		46.2	50.00	0	92.3					83.4	113	10/21/2016	
tert-Butylbenzene				5.0		46.6	50.00	0	93.3					75.9	114	10/21/2016	
Tetrachloroethene				5.0		45.3	50.00	0	90.6					72.5	125	10/21/2016	
Tetrahydrofuran				20.0		43.7	50.00	0	87.4					69.6	125	10/21/2016	
Toluene				5.0		48.1	50.00	0	96.1					77.5	113	10/21/2016	
trans-1,2-Dichloroethene				5.0		45.8	50.00	0	91.6					79	114	10/21/2016	
trans-1,3-Dichloropropene				5.0		46.2	50.00	0	92.3					78	115	10/21/2016	
trans-1,4-Dichloro-2-butene				10.0		53.2	50.00	0	106.4					63.3	128	10/21/2016	
Trichloroethene				5.0		44.0	50.00	0	88.1					84.4	114	10/21/2016	
Trichlorofluoromethane				5.0	S	37.4	50.00	0	74.9					75.2	132	10/21/2016	
Vinyl acetate				10.0		48.5	50.00	0	97.0					64.5	127	10/21/2016	

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123757	SampType	LCS	Units	µg/L						Date Analyzed
SampID:	LCS-T161021A-1										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
Vinyl chloride		2.0			43.1	50.00	0	86.1		58	134
Surr: 1,2-Dichloroethane-d4					47.7	50.00		95.4		74.7	129
Surr: 4-Bromofluorobenzene					48.5	50.00		97.1		86	119
Surr: Dibromofluoromethane					46.3	50.00		92.6		81.7	123
Surr: Toluene-d8					50.2	50.00		100.5		84.1	114

Batch 123757 SampType: MS Units µg/L

Batch	123757	SampType	MS	Units	µg/L						Date Analyzed
SampID:	16101279-003AMS										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
1,1-Dichloroethene		100			618	1000	0	61.8		35.7	136
Benzene		40.0			836	1000	0	83.6		62.5	121
Chlorobenzene		100			930	1000	0	93.0		78.6	114
Ethylbenzene		100			985	1000	0	98.5		74.4	130
m,p-Xylenes		100			964	1000	0	96.4		70.5	126
o-Xylene		100			903	1000	0	90.3		71.2	124
Toluene		100			929	1000	0	92.9		69.5	118
Trichloroethene		100			855	1000	67.80	78.7		69.4	117
Surr: 1,2-Dichloroethane-d4					962	1000		96.2		74.7	129
Surr: 4-Bromofluorobenzene					985	1000		98.5		86	119
Surr: Dibromofluoromethane					901	1000		90.1		81.7	123
Surr: Toluene-d8					1020	1000		102.1		84.3	114

Batch 123757 SampType: MSD Units µg/L RPD Limit 20

Batch	123757	SampType	MSD	Units	µg/L						Date Analyzed
SampID:	16101279-003AMSD										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val %RPD
1,1-Dichloroethene		100			586	1000	0	58.6		617.6	5.29
Benzene		40.0			824	1000	0	82.4		836.4	1.49
Chlorobenzene		100			900	1000	0	90.0		929.8	3.23
Ethylbenzene		100			932	1000	0	93.2		984.6	5.47
m,p-Xylenes		100			925	1000	0	92.5		964.2	4.11
o-Xylene		100			865	1000	0	86.5		903.2	4.37
Toluene		100			899	1000	0	89.9		929.4	3.30
Trichloroethene		100			832	1000	67.80	76.4		854.6	2.73
Surr: 1,2-Dichloroethane-d4					976	1000		97.6			10/21/2016
Surr: 4-Bromofluorobenzene					956	1000		95.6			10/21/2016
Surr: Dibromofluoromethane					886	1000		88.6			10/21/2016
Surr: Toluene-d8					1050	1000		105.4			10/21/2016

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Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	MBLK	Units	µg/L	Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
						SampleID:	MBLK-R161024A-1									
1,1,1,2-Tetrachloroethane				5.0					ND							10/24/2016
1,1,1-Trichloroethane				5.0					ND							10/24/2016
1,1,2,2-Tetrachloroethane				5.0					ND							10/24/2016
1,1,2-Trichloro-1,2,2-trifluoroethane				20.0					ND							10/24/2016
1,1,2-Trichloroethane				5.0					ND							10/24/2016
1,1-Dichloro-2-propanone				50.0					ND							10/24/2016
1,1-Dichloroethane				5.0					ND							10/24/2016
1,1-Dichloroethene				5.0					ND							10/24/2016
1,1-Dichloropropene				5.0					ND							10/24/2016
1,2,3-Trichlorobenzene				5.0					ND							10/24/2016
1,2,3-Trichloropropane				5.0					ND							10/24/2016
1,2,3-Trimethylbenzene				5.0					ND							10/24/2016
1,2,4-Trichlorobenzene				5.0					ND							10/24/2016
1,2,4-Trimethylbenzene				5.0					ND							10/24/2016
1,2-Dibromo-3-chloropropane				5.0					ND							10/24/2016
1,2-Dibromoethane				5.0					ND							10/24/2016
1,2-Dichlorobenzene				5.0					ND							10/24/2016
1,2-Dichloroethane				5.0					ND							10/24/2016
1,2-Dichloropropane				5.0					ND							10/24/2016
1,3,5-Trimethylbenzene				5.0					ND							10/24/2016
1,3-Dichlorobenzene				5.0					ND							10/24/2016
1,3-Dichloropropane				5.0					ND							10/24/2016
1,4-Dichlorobenzene				5.0					ND							10/24/2016
1-Chlorobutane				5.0					ND							10/24/2016
2,2-Dichloropropane				5.0					ND							10/24/2016
2-Butanone				25.0					ND							10/24/2016
2-Chloroethyl vinyl ether				20.0					ND							10/24/2016
2-Chlorotoluene				5.0					ND							10/24/2016
2-Hexanone				25.0					ND							10/24/2016
2-Nitropropane				50.0					ND							10/24/2016
4-Chlorotoluene				5.0					ND							10/24/2016
4-Methyl-2-pentanone				25.0					ND							10/24/2016
Acetone				25.0					ND							10/24/2016
Acetonitrile				50.0					ND							10/24/2016
Acrolein				100					ND							10/24/2016
Acrylonitrile				5.0					ND							10/24/2016
Allyl chloride				5.0					ND							10/24/2016
Benzene				2.0					ND							10/24/2016
Bromobenzene				5.0					ND							10/24/2016
Bromochloromethane				5.0					ND							10/24/2016
Bromodichloromethane				5.0					ND							10/24/2016
Bromoform				5.0					ND							10/24/2016
Bromomethane				10.0					ND							10/24/2016
Carbon disulfide				5.0					ND							10/24/2016
Carbon tetrachloride				5.0					ND							10/24/2016
Chlorobenzene				5.0					ND							10/24/2016
Chloroethane				10.0					ND							10/24/2016

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Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	MBLK	Units	µg/L	Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
						SampID: MBLK-R161024A-1										
Chloroform				5.0					ND							10/24/2016
Chloromethane				10.0					ND							10/24/2016
Chloroprene				20.0					ND							10/24/2016
cis-1,2-Dichloroethene				5.0					ND							10/24/2016
cis-1,3-Dichloropropene				5.0					ND							10/24/2016
cis-1,4-Dichloro-2-butene				5.0					ND							10/24/2016
Cyclohexanone				50.0					ND							10/24/2016
Dibromochloromethane				5.0					ND							10/24/2016
Dibromomethane				5.0					ND							10/24/2016
Dichlorodifluoromethane				10.0					ND							10/24/2016
Ethyl acetate				10.0					ND							10/24/2016
Ethyl ether				5.0					ND							10/24/2016
Ethyl methacrylate				5.0					ND							10/24/2016
Ethylbenzene				5.0					ND							10/24/2016
Hexachlorobutadiene				5.0					ND							10/24/2016
Hexachloroethane				10.0					ND							10/24/2016
Iodomethane				5.0					ND							10/24/2016
Isopropylbenzene				5.0					ND							10/24/2016
m,p-Xylenes				5.0					ND							10/24/2016
Methacrylonitrile				10.0					ND							10/24/2016
Methyl Methacrylate				5.0					ND							10/24/2016
Methyl tert-butyl ether				2.0					ND							10/24/2016
Methylacrylate				10.0					ND							10/24/2016
Methylene chloride				5.0					ND							10/24/2016
Naphthalene				10.0					ND							10/24/2016
n-Butyl acetate				25.0					ND							10/24/2016
n-Butylbenzene				5.0					ND							10/24/2016
n-Heptane				20.0					ND							10/24/2016
n-Hexane				20.0					ND							10/24/2016
Nitrobenzene				50.0					ND							10/24/2016
n-Propylbenzene				5.0					ND							10/24/2016
o-Xylene				5.0					ND							10/24/2016
Pentachloroethane				20.0					ND							10/24/2016
p-Isopropyltoluene				5.0					ND							10/24/2016
Propionitrile				50.0					ND							10/24/2016
sec-Butylbenzene				5.0					ND							10/24/2016
Styrene				5.0					ND							10/24/2016
tert-Butylbenzene				5.0					ND							10/24/2016
Tetrachloroethene				5.0					ND							10/24/2016
Tetrahydrofuran				20.0					ND							10/24/2016
Toluene				5.0					ND							10/24/2016
trans-1,2-Dichloroethene				5.0					ND							10/24/2016
trans-1,3-Dichloropropene				5.0					ND							10/24/2016
trans-1,4-Dichloro-2-butene				10.0					ND							10/24/2016
Trichloroethene				5.0					ND							10/24/2016
Trichlorofluoromethane				5.0					ND							10/24/2016
Vinyl acetate				10.0					ND							10/24/2016



Quality Control Results

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Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	MBLK	Units	µg/L								
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit		Date Analyzed
Vinyl chloride		2.0			ND								10/24/2016
Surr: 1,2-Dichloroethane-d4					48.8	50.00		97.7		74.7	129		10/24/2016
Surr: 4-Bromofluorobenzene					48.7	50.00		97.4		86	119		10/24/2016
Surr: Dibromofluoromethane					50.0	50.00		100.1		81.7	123		10/24/2016
Surr: Toluene-d8					52.0	50.00		104.0		84.3	114		10/24/2016

Quality Control Results

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Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType:	LCSD	Units	µg/L	RPD Limit 40						Date Analyzed	
SampID: LCSD-R161024A-1													
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD
1,1,1,2-Tetrachloroethane		5.0				51.9	50.00	0	103.7		50.89	1.91	10/24/2016
1,1,1-Trichloroethane		5.0				46.4	50.00	0	92.9		46.09	0.76	10/24/2016
1,1,2,2-Tetrachloroethane		5.0				52.5	50.00	0	105.0		50.81	3.31	10/24/2016
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0				50.2	50.00	0	100.4		50.00	0.36	10/24/2016
1,1,2-Trichloroethane		5.0				51.2	50.00	0	102.5		50.45	1.55	10/24/2016
1,1-Dichloro-2-propanone		50.0				105	125.0	0	84.1		105.0	0.10	10/24/2016
1,1-Dichloroethane		5.0				49.6	50.00	0	99.3		48.99	1.34	10/24/2016
1,1-Dichloroethene		5.0				49.4	50.00	0	98.8		49.28	0.22	10/24/2016
1,1-Dichloropropene		5.0				51.5	50.00	0	102.9		51.27	0.39	10/24/2016
1,2,3-Trichlorobenzene		5.0				50.8	50.00	0	101.6		49.57	2.41	10/24/2016
1,2,3-Trichloropropane		5.0				49.5	50.00	0	98.9		48.78	1.40	10/24/2016
1,2,3-Trimethylbenzene		5.0				52.8	50.00	0	105.7		50.97	3.60	10/24/2016
1,2,4-Trichlorobenzene		5.0				49.4	50.00	0	98.7		48.45	1.88	10/24/2016
1,2,4-Trimethylbenzene		5.0				53.5	50.00	0	107.0		52.13	2.61	10/24/2016
1,2-Dibromo-3-chloropropane		5.0				44.4	50.00	0	88.7		43.72	1.43	10/24/2016
1,2-Dibromoethane		5.0				50.8	50.00	0	101.7		49.65	2.35	10/24/2016
1,2-Dichlorobenzene		5.0				52.1	50.00	0	104.2		50.30	3.53	10/24/2016
1,2-Dichloroethane		5.0				46.3	50.00	0	92.6		45.23	2.32	10/24/2016
1,2-Dichloropropane		5.0				51.0	50.00	0	102.0		50.24	1.46	10/24/2016
1,3,5-Trimethylbenzene		5.0				53.6	50.00	0	107.1		51.39	4.15	10/24/2016
1,3-Dichlorobenzene		5.0				52.4	50.00	0	104.8		50.48	3.69	10/24/2016
1,3-Dichloropropane		5.0				51.8	50.00	0	103.6		50.66	2.24	10/24/2016
1,4-Dichlorobenzene		5.0				52.1	50.00	0	104.1		50.26	3.52	10/24/2016
1-Chlorobutane		5.0				48.7	50.00	0	97.4		48.36	0.70	10/24/2016
2,2-Dichloropropane		5.0				45.7	50.00	0	91.4		45.67	0.02	10/24/2016
2-Butanone		25.0				112	125.0	0	89.5		112.3	0.46	10/24/2016
2-Chloroethyl vinyl ether		20.0				64.8	50.00	0	129.5		64.14	0.96	10/24/2016
2-Chlorotoluene		5.0				52.9	50.00	0	105.7		50.71	4.17	10/24/2016
2-Hexanone		25.0				123	125.0	0	98.2		121.8	0.83	10/24/2016
2-Nitropropane		50.0				439	500.0	0	87.8		444.3	1.25	10/24/2016
4-Chlorotoluene		5.0				53.2	50.00	0	106.5		50.83	4.63	10/24/2016
4-Methyl-2-pentanone		25.0				128	125.0	0	102.6		126.6	1.33	10/24/2016
Acetone		25.0				94.6	125.0	0	75.7		98.95	4.51	10/24/2016
Acetonitrile		50.0				530	500.0	0	106.0		501.7	5.48	10/24/2016
Acrolein	100	SE				1250	500.0	0	250.4		1255	0.20	10/24/2016
Acrylonitrile	5.0					49.2	50.00	0	98.4		49.09	0.26	10/24/2016
Allyl chloride	5.0					44.9	50.00	0	89.9		46.10	2.57	10/24/2016
Benzene	2.0					49.7	50.00	0	99.3		49.34	0.67	10/24/2016
Bromobenzene	5.0					50.9	50.00	0	101.9		48.77	4.33	10/24/2016
Bromochloromethane	5.0					47.1	50.00	0	94.2		46.36	1.60	10/24/2016
Bromodichloromethane	5.0					48.2	50.00	0	96.4		47.26	1.93	10/24/2016
Bromoform	5.0					51.9	50.00	0	103.8		51.21	1.30	10/24/2016
Bromomethane	10.0					52.5	50.00	0	104.9		50.28	4.24	10/24/2016
Carbon disulfide	5.0					47.9	50.00	0	95.8		47.56	0.69	10/24/2016
Carbon tetrachloride	5.0					46.8	50.00	0	93.5		46.84	0.17	10/24/2016
Chlorobenzene	5.0					51.8	50.00	0	103.6		50.94	1.67	10/24/2016
Chloroethane	10.0					53.7	50.00	0	107.5		56.42	4.87	10/24/2016

Quality Control Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType:	LCSD	Units	µg/L	RPD Limit 40						
								RPD	Ref	Val	%RPD	Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref	Val	%REC			
Chloroform		5.0		46.4	50.00	0	92.8		45.39		2.18	10/24/2016
Chloromethane		10.0		41.6	50.00	0	83.2		42.33		1.74	10/24/2016
Chloroprene		20.0		45.0	50.00	0	90.0		44.69		0.69	10/24/2016
cis-1,2-Dichloroethene		5.0		47.0	50.00	0	94.0		46.32		1.41	10/24/2016
cis-1,3-Dichloropropene		5.0		49.6	50.00	0	99.2		48.35		2.53	10/24/2016
cis-1,4-Dichloro-2-butene		5.0		49.3	50.00	0	98.6		48.74		1.18	10/24/2016
Cyclohexanone		50.0		456	500.0	0	91.2		457.2		0.27	10/24/2016
Dibromochloromethane		5.0		51.2	50.00	0	102.5		50.29		1.85	10/24/2016
Dibromomethane		5.0		48.7	50.00	0	97.4		47.80		1.89	10/24/2016
Dichlorodifluoromethane		10.0		52.0	50.00	0	104.0		51.79		0.42	10/24/2016
Ethyl acetate		10.0		44.8	50.00	0	89.7		44.51		0.74	10/24/2016
Ethyl ether		5.0		47.8	50.00	0	95.6		46.10		3.66	10/24/2016
Ethyl methacrylate		5.0		50.9	50.00	0	101.8		49.57		2.61	10/24/2016
Ethylbenzene		5.0		53.8	50.00	0	107.6		52.61		2.26	10/24/2016
Hexachlorobutadiene		5.0		48.8	50.00	0	97.7		48.51		0.68	10/24/2016
Hexachloroethane		10.0		48.2	50.00	0	96.4		47.24		1.99	10/24/2016
Iodomethane		5.0		36.0	50.00	0	72.1		36.26		0.64	10/24/2016
Isopropylbenzene		5.0		54.6	50.00	0	109.1		53.66		1.64	10/24/2016
m,p-Xylenes		5.0		108	100.0	0	108.2		106.2		1.87	10/24/2016
Methacrylonitrile		10.0		50.0	50.00	0	100.0		49.59		0.80	10/24/2016
Methyl Methacrylate		5.0		42.8	50.00	0	85.6		42.54		0.59	10/24/2016
Methyl tert-butyl ether		2.0		46.0	50.00	0	92.0		44.89		2.42	10/24/2016
Methylacrylate		10.0		51.9	50.00	0	103.8		48.23		7.31	10/24/2016
Methylene chloride		5.0		44.6	50.00	0	89.2		43.95		1.45	10/24/2016
Naphthalene		10.0		49.9	50.00	0	99.8		48.56		2.76	10/24/2016
n-Butyl acetate		25.0		48.4	50.00	0	96.8		47.90		1.08	10/24/2016
n-Butylbenzene		5.0		52.9	50.00	0	105.7		52.17		1.33	10/24/2016
n-Heptane		20.0		48.1	50.00	0	96.2		48.94		1.75	10/24/2016
n-Hexane		20.0		50.8	50.00	0	101.7		51.03		0.37	10/24/2016
Nitrobenzene		50.0		375	500.0	0	75.1		396.6		5.51	10/24/2016
n-Propylbenzene		5.0		53.6	50.00	0	107.2		52.30		2.49	10/24/2016
o-Xylene		5.0		53.3	50.00	0	106.6		52.10		2.26	10/24/2016
Pentachloroethane		20.0		49.3	50.00	0	98.6		47.24		4.25	10/24/2016
p-Isopropyltoluene		5.0		54.6	50.00	0	109.1		52.95		2.98	10/24/2016
Propionitrile		50.0		501	500.0	0	100.2		499.9		0.25	10/24/2016
sec-Butylbenzene		5.0		54.0	50.00	0	107.9		52.13		3.47	10/24/2016
Styrene		5.0		54.1	50.00	0	108.2		53.11		1.87	10/24/2016
tert-Butylbenzene		5.0		51.2	50.00	0	102.4		50.03		2.33	10/24/2016
Tetrachloroethene		5.0		51.1	50.00	0	102.3		50.75		0.77	10/24/2016
Tetrahydrofuran		20.0		44.1	50.00	0	88.2		44.23		0.32	10/24/2016
Toluene		5.0		52.7	50.00	0	105.4		51.92		1.51	10/24/2016
trans-1,2-Dichloroethene		5.0		51.7	50.00	0	103.4		50.62		2.11	10/24/2016
trans-1,3-Dichloropropene		5.0		50.8	50.00	0	101.7		49.65		2.35	10/24/2016
trans-1,4-Dichloro-2-butene		10.0		45.5	50.00	0	90.9		44.60		1.91	10/24/2016
Trichloroethene		5.0		48.5	50.00	0	97.1		48.05		0.99	10/24/2016
Trichlorofluoromethane		5.0		61.7	50.00	0	123.4		48.71		23.53	10/24/2016
Vinyl acetate		10.0		45.6	50.00	0	91.2		47.25		3.53	10/24/2016



Quality Control Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	LCSD	Units	µg/L	RPD Limit 40												
Analyses								RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Vinyl chloride				2.0		49.9	50.00		0	99.8		53.06		6.16		10/24/2016		
Surr: 1,2-Dichloroethane-d4					48.0	50.00				95.9						10/24/2016		
Surr: 4-Bromofluorobenzene					48.2	50.00				96.5						10/24/2016		
Surr: Dibromofluoromethane					50.3	50.00				100.7						10/24/2016		
Surr: Toluene-d8					52.6	50.00				105.1						10/24/2016		

Quality Control Results

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Client: XDD, LLC

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Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	LCS	Units	µg/L	Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
						SampID:	LCS-R161024A-1										
1,1,1,2-Tetrachloroethane				5.0		50.9	50.00		0	101.8				81.9	115	10/24/2016	
1,1,1-Trichloroethane				5.0		46.1	50.00		0	92.2				79.4	124	10/24/2016	
1,1,2,2-Tetrachloroethane				5.0		50.8	50.00		0	101.6				74.7	116	10/24/2016	
1,1,2-Trichloro-1,2,2-trifluoroethane				20.0		50.0	50.00		0	100.0				72.9	121	10/24/2016	
1,1,2-Trichloroethane				5.0		50.4	50.00		0	100.9				80.8	111	10/24/2016	
1,1-Dichloro-2-propanone				50.0		105	125.0		0	84.0				66.3	130	10/24/2016	
1,1-Dichloroethane				5.0		49.0	50.00		0	98.0				79.4	114	10/24/2016	
1,1-Dichloroethene				5.0		49.3	50.00		0	98.6				74.1	117	10/24/2016	
1,1-Dichloropropene				5.0		51.3	50.00		0	102.5				81.7	116	10/24/2016	
1,2,3-Trichlorobenzene				5.0		49.6	50.00		0	99.1				79.7	118	10/24/2016	
1,2,3-Trichloropropane				5.0		48.8	50.00		0	97.6				77.3	112	10/24/2016	
1,2,3-Trimethylbenzene				5.0		51.0	50.00		0	101.9				79.9	119	10/24/2016	
1,2,4-Trichlorobenzene				5.0		48.4	50.00		0	96.9				79.3	118	10/24/2016	
1,2,4-Trimethylbenzene				5.0		52.1	50.00		0	104.3				78.7	115	10/24/2016	
1,2-Dibromo-3-chloropropane				5.0		43.7	50.00		0	87.4				76	122	10/24/2016	
1,2-Dibromoethane				5.0		49.6	50.00		0	99.3				80.8	114	10/24/2016	
1,2-Dichlorobenzene				5.0		50.3	50.00		0	100.6				78.3	112	10/24/2016	
1,2-Dichloroethane				5.0		45.2	50.00		0	90.5				70.6	118	10/24/2016	
1,2-Dichloropropane				5.0		50.2	50.00		0	100.5				79.6	113	10/24/2016	
1,3,5-Trimethylbenzene				5.0		51.4	50.00		0	102.8				77.5	115	10/24/2016	
1,3-Dichlorobenzene				5.0		50.5	50.00		0	101.0				78.6	117	10/24/2016	
1,3-Dichloropropane				5.0		50.7	50.00		0	101.3				78.8	112	10/24/2016	
1,4-Dichlorobenzene				5.0		50.3	50.00		0	100.5				77.8	114	10/24/2016	
1-Chlorobutane				5.0		48.4	50.00		0	96.7				78.6	115	10/24/2016	
2,2-Dichloropropane				5.0		45.7	50.00		0	91.3				74.9	130	10/24/2016	
2-Butanone				25.0		112	125.0		0	89.9				70.7	136	10/24/2016	
2-Chloroethyl vinyl ether				20.0		64.1	50.00		0	128.3				52.5	145	10/24/2016	
2-Chlorotoluene				5.0		50.7	50.00		0	101.4				77.4	114	10/24/2016	
2-Hexanone				25.0		122	125.0		0	97.4				73.3	125	10/24/2016	
2-Nitropropane				50.0		444	500.0		0	88.9				67.3	139	10/24/2016	
4-Chlorotoluene				5.0		50.8	50.00		0	101.7				78.3	115	10/24/2016	
4-Methyl-2-pentanone				25.0		127	125.0		0	101.3				76.3	122	10/24/2016	
Acetone				25.0		99.0	125.0		0	79.2				56.4	147	10/24/2016	
Acetonitrile				50.0		502	500.0		0	100.3				59.3	129	10/24/2016	
Acrolein				100	SE	1250	500.0		0	250.9				1	201	10/24/2016	
Acrylonitrile				5.0		49.1	50.00		0	98.2				74.1	128	10/24/2016	
Allyl chloride				5.0		46.1	50.00		0	92.2				71.5	123	10/24/2016	
Benzene				2.0		49.3	50.00		0	98.7				80	114	10/24/2016	
Bromobenzene				5.0		48.8	50.00		0	97.5				73.2	118	10/24/2016	
Bromochloromethane				5.0		46.4	50.00		0	92.7				73.3	121	10/24/2016	
Bromodichloromethane				5.0		47.3	50.00		0	94.5				81.6	121	10/24/2016	
Bromoform				5.0		51.2	50.00		0	102.4				83.1	127	10/24/2016	
Bromomethane				10.0		50.3	50.00		0	100.6				44.4	154	10/24/2016	
Carbon disulfide				5.0		47.6	50.00		0	95.1				73.2	118	10/24/2016	
Carbon tetrachloride				5.0		46.8	50.00		0	93.7				79.4	130	10/24/2016	
Chlorobenzene				5.0		50.9	50.00		0	101.9				81.4	110	10/24/2016	
Chloroethane				10.0		56.4	50.00		0	112.8				52.1	137	10/24/2016	

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType	LCS	Units	µg/L						Date Analyzed
SampleID:	LCS-R161024A-1										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
Chloroform		5.0			45.4	50.00	0	90.8		82.7	116
Chloromethane		10.0			42.3	50.00	0	84.7		48.2	144
Chloroprene		20.0			44.7	50.00	0	89.4		80.6	126
cis-1,2-Dichloroethene		5.0			46.3	50.00	0	92.6		78.2	116
cis-1,3-Dichloropropene		5.0			48.4	50.00	0	96.7		83	119
cis-1,4-Dichloro-2-butene		5.0			48.7	50.00	0	97.5		60.7	137
Cyclohexanone		50.0			457	500.0	0	91.4		54.2	145
Dibromochloromethane		5.0			50.3	50.00	0	100.6		81.2	121
Dibromomethane		5.0			47.8	50.00	0	95.6		78.3	118
Dichlorodifluoromethane		10.0			51.8	50.00	0	103.6		20.6	154
Ethyl acetate		10.0			44.5	50.00	0	89.0		73.1	116
Ethyl ether		5.0			46.1	50.00	0	92.2		75.2	109
Ethyl methacrylate		5.0			49.6	50.00	0	99.1		80.1	113
Ethylbenzene		5.0			52.6	50.00	0	105.2		77.2	113
Hexachlorobutadiene		5.0			48.5	50.00	0	97.0		77.3	123
Hexachloroethane		10.0			47.2	50.00	0	94.5		74.6	117
Iodomethane		5.0			36.3	50.00	0	72.5		61.3	140
Isopropylbenzene		5.0			53.7	50.00	0	107.3		81.3	114
m,p-Xylenes		5.0			106	100.0	0	106.2		79.6	113
Methacrylonitrile		10.0			49.6	50.00	0	99.2		77.2	125
Methyl Methacrylate		5.0			42.5	50.00	0	85.1		74.2	121
Methyl tert-butyl ether		2.0			44.9	50.00	0	89.8		76.8	117
Methylacrylate		10.0			48.2	50.00	0	96.5		78	124
Methylene chloride		5.0			44.0	50.00	0	87.9		74.1	114
Naphthalene		10.0			48.6	50.00	0	97.1		77.9	122
n-Butyl acetate		25.0			47.9	50.00	0	95.8		74	120
n-Butylbenzene		5.0			52.2	50.00	0	104.3		71.1	120
n-Heptane		20.0			48.9	50.00	0	97.9		67.4	129
n-Hexane		20.0			51.0	50.00	0	102.1		68.4	126
Nitrobenzene		50.0			397	500.0	0	79.3		37.9	181
n-Propylbenzene		5.0			52.3	50.00	0	104.6		74.6	118
o-Xylene		5.0			52.1	50.00	0	104.2		80.1	111
Pentachloroethane		20.0			47.2	50.00	0	94.5		78.8	117
p-Isopropyltoluene		5.0			53.0	50.00	0	105.9		77.6	118
Propionitrile		50.0			500	500.0	0	100.0		72.9	137
sec-Butylbenzene		5.0			52.1	50.00	0	104.3		74.5	119
Styrene		5.0			53.1	50.00	0	106.2		83.4	113
tert-Butylbenzene		5.0			50.0	50.00	0	100.1		75.9	114
Tetrachloroethene		5.0			50.8	50.00	0	101.5		72.5	125
Tetrahydrofuran		20.0			44.2	50.00	0	88.5		69.6	125
Toluene		5.0			51.9	50.00	0	103.8		77.5	113
trans-1,2-Dichloroethene		5.0			50.6	50.00	0	101.2		79	114
trans-1,3-Dichloropropene		5.0			49.6	50.00	0	99.3		78	115
trans-1,4-Dichloro-2-butene		10.0			44.6	50.00	0	89.2		63.3	128
Trichloroethene		5.0			48.0	50.00	0	96.1		84.4	114
Trichlorofluoromethane		5.0			48.7	50.00	0	97.4		75.2	132
Vinyl acetate		10.0			47.2	50.00	0	94.5		64.5	127



Quality Control Results

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	123767	SampType:	LCS	Units	µg/L							
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride		2.0			53.1	50.00	0	106.1	58	134		10/24/2016
Surr: 1,2-Dichloroethane-d4					48.2	50.00		96.4	74.7	129		10/24/2016
Surr: 4-Bromofluorobenzene					47.5	50.00		95.0	86	119		10/24/2016
Surr: Dibromofluoromethane					50.2	50.00		100.5	81.7	123		10/24/2016
Surr: Toluene-d8					51.9	50.00		103.8	84.1	114		10/24/2016

Receiving Check List

<http://www.teklabinc.com/>

Client: XDD, LLC

Work Order: 16101279

Client Project: Ameren Huster Road

Report Date: 25-Oct-16

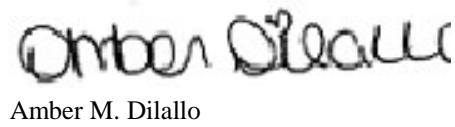
Carrier: Anthony Kimutis

Received By: AMD

Completed by:

On:

20-Oct-16

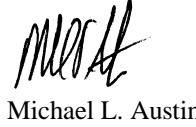


Amber M. Dilallo

Reviewed by:

On:

21-Oct-16



Michael L. Austin

Pages to follow: Chain of custody 1

Extra pages included 0

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 6.82
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i>				
Water – at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. / of / Work Order # 10101279

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: XDD
 Address: 11171 Forest Haven Rd
 City / State / Zip: Fox Valley, IL 63028
 Contact: TYRICK INGRAM Phone: 314-609-3065
 E-Mail: INGRAM@XN-IC.COM Fax: _____

Samples on: Ice Blue Ice No Ice 6.82 °C

Preserved in: Lab Field FOR LAB USE ONLY

Lab Notes:

OK Headspace TAC
10/20/16

Comments:

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
- Are these samples known to be hazardous? Yes No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Yes No

Project Name / Number <u>AMEREN HUNTER ROAD</u>		Sample Collector's Name <u>John Linnemann</u>		MATRIX		INDICATE ANALYSIS REQUESTED											
Results Requested <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		Billing Instructions		# and Type of Containers													
				UNPRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	VOC 8260
10101279	001	TBI-1	10-20-16 / 09:40				X					X					
002	TBI-1	10-20-16 / 09:40					X					X					
003	TBI-3		10-20-16 / 10:15				X					X					
004	TBI-5		10-20-16 / 10:30				X					X					
005	TBI-7		10-20-16 / 11:20				X					X					
006	TBI-10		10-20-16 / 12:00				X					X					
007	TBI - 8		10-20-16 / 12:52				X					X					
Relinquished By <u>John Linnemann</u> <u>JL</u> <u>EJG</u>		Date / Time 10-20-16 / 14:56 10/20/16 1600 10/20/16 1700		Received By <u>Jack Reed</u> <u>JK</u> <u>Amber Peralta</u>		Date / Time 10/20/16 1456 10/20/16 1600 10/20/16 1700											

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAB YELLOW - SAMPLER'S COPY

TAC
11/16